

**U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE**

ATTY. DOCKET NO.
40146/32:6

APPLICATION NO.
10/649,116

APPLICANT
Paul Bacchi and Paul S. Filipski

FILING DATE
August 26, 2003

GROUP

3661

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER								DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
m. m	AA	6	6	1	8	6	4	5	09/09/03	Bacchi et al.	700	254	08/15/02	
	AB	6	4	5	3	2	1	4	09/17/02	Bacchi et al.	700	245	08/02/01	
	AC	6	4	3	8	4	6	0	08/20/02	Bacchi et al.	700	245	08/01/01	
	AD	6	2	7	5	7	4	8	08/14/01	Bacchi et al.	700	245	05/14/99	
	AE	6	2	5	6	5	5	5	07/03/01	Bacchi et al.	700	245	12/02/98	
	AF	6	1	6	0	2	6	5	12/12/00	Bacchi et al.	250	559.29	08/27/98	
	AG	6	1	1	3	1	6	5	09/05/00	Wen et al.	294	1.1	10/02/98	
	AH	6	1	0	9	6	7	7	08/29/00	Anthony	294	103.1	05/28/98	
	AI	6	1	0	5	4	5	4	08/22/00	Bacchi et al.	074	490.03	06/16/98	
	AJ	6	0	9	8	4	8	4	08/08/00	Bacchi et al.	074	490.03	12/02/98	
	AK	5	9	8	8	9	7	1	11/23/99	Fossey et al.	414	416	07/09/97	

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER								DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
														YES	NO
m.m	AL	0	0	3	3	3	5	9	08.06.00	WO	H01L	21/00	X		
	AM	0	0	0	3	4	1	8	20.01.00	WO	H01L	21/00	X		
	AN	0	8	2	0	0	9	1	21.01.98	Europe	H01L	21/00	X		
	AO	9	7	4	5	8	6	1	04.12.97	WO	H01L	21/00	X		
	AP	9	7	4	4	8	1	6	27.11.97	WO	H01L	21/00	X		

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

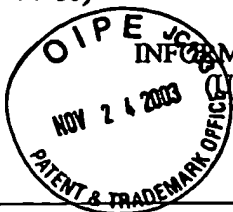
AR	Motion Engineering, Inc., Advanced motion control semiconductor front-end applications, 1999, Internet, pp. 1-12.
AS	Srinivasan, Modeling and performance analysis of cluster tools using petri nets, 1998, IEEE, pp. 394-403.
AT	Song et al., Intelligent rehabilitation robotic system for the disabled and the elderly, 1998, IEEE, pp. 2682-2685.

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DATE CONSIDERED

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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE
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m.m.	AA	5	9	8	0	1	8	8		11/09/99	Ko et al.	414	417	11/28/97
	AB	5	9	4	4	4	7	6		08/31/99	Bacchi et al.	414	783	03/26/97
	AC	5	8	7	0	4	8	8		02/09/99	Rush et al.	382	151	05/07/96
	AD	5	8	1	0	9	3	5		09/22/98	Lee et al.	118	728	11/29/95
	AE	5	7	6	5	4	4	4		06/16/98	Bacchi et al.	074	490.03	
	AF	5	7	4	1	1	1	3		04/21/98	Bacchi et al.	414	744.5	
	AG	5	6	9	7	7	5	9		12/16/97	Bacchi et al.	414	786	
	AH	5	6	6	9	6	4	4		09/23/97	Kaihitsu et al.	294	1.1	
	AI	5	5	3	8	3	8	5		07/23/96	Bacchi et al.	414	403	
	AJ	5	5	1	3	9	4	8		05/07/96	Bacchi et al.	414	783	
	AK	5	5	1	1	9	3	4		04/30/96	Bacchi et al.	414	783	

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EXAMINER INITIAL		DOCUMENT NUMBER								DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
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m.m.	AL	8	2	2	7	9	3	1		03.09.96	Japan	H01L	21/68	Machine	
	AM	0	6	6	9	6	4	2		30.08.95	Europe	H01L	21/00	X	
	AN	7	2	0	1	9	4	7		04.08.95	Japan	21	68	X	
	AO	7	1	5	3	8	1	8		16.06.95	Japan	21	68	X	
	AP	7	0	3	7	9	6	0		07.02.95	Japan	H01L	21/68	Abstract	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

m.m.	AR	Arai et al., Micro endeffector with micro pyramids and integrated piezoresistive force sensor, 1996, IEEE, pp. 842-849.												
	AS	Hesselroth et al., Neural network control of a pneumatic robot arm, 1994, IEEE, pp. 28-38.												
	AT	Brett et al., A tactile sensing technique for automatic gripping of compact shaped non-rigid materials, 1994, IEEE, pp. 5/1-5/5.												

EXAMINER

m.m. McDowell Marc

DATE CONSIDERED

11/1/04

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
m.m.	AA	5 4 5 6 5 6 1	10/10/95	Poduje et al.	414	225	
	AB	5 3 8 7 0 6 7	02/07/95	Grunes	414	217	
	AC	5 3 8 2 8 0 6	01/17/95	Bacchi et al.	250	561	
	AD	5 3 3 2 3 5 2	07/26/94	Poduje et al.	414	225	
	AE	5 2 3 8 3 5 4	08/24/93	Volovich	414	779	
	AF	5 1 3 3 6 3 5	07/28/92	Malin et al.	414	744.8	
	AG	5 0 9 2 7 2 9	03/03/92	Yamazaki et al.	414	225	
	AH	4 9 3 8 6 0 0	07/03/00	Into	365	401	
	AI	4 9 0 0 2 1 4	02/13/90	Ben	414	416	
	AJ	4 7 1 7 1 9 0	01/05/88	Witherspoon	294	99.2	
	AK	4 6 3 9 0 2 8	01/27/87	Olson	294	34	

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
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m.m.	AL	7 0 2 2 5 0 2	24.01.95	Japan	21	68	Machine	
	AM	9 4 1 9 8 2 1	01.09.94	WO	H01L	21/00	Abstract	
	AN	6 1 5 5 3 6 6	03.06.94	Japan	B25J	19/00	Machine	
	AO	4 3 4 3 4 4 8	30.11.92	Japan	21	68	Machine	
	AP	4 2 7 7 6 4 7	02.10.92	Japan	H01L	21/68	Abstract	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

m.m.	AR	Mahalingam et al., Special challenges of robotic gripping in space, 1988, IEEE, pp. 581-586.
	AS	
	AT	

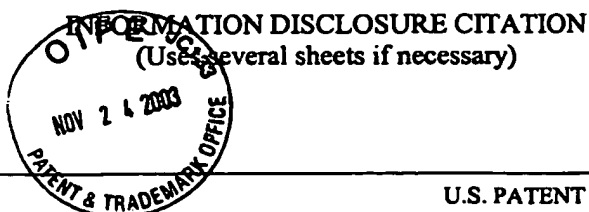
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McDonnell Mac

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m. m	AA	4	6	6	2	8	1	1		05/05/87	Hayden	414	433	
	AB	4	4	5	2	4	8	0		06/05/84	Maier et al.	294	104	
	AC	4	4	1	0	2	0	9		10/18/83	Trapani	294	34	
	AD	4	0	2	4	9	4	4		05/24/97	Adams et al.	198	394	
	AE	2	3	6	7	9	9	1		01/23/45	Bailey	294	34	
	AF													
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m.m	AA	6	2	9	8	2	8	0	10/02/01	Bonora et al.	700	218	09/28/98
m.m	AB	6	1	1	6	8	4	8	09/12/00	Thomas et al.	414	754	11/26/97
m.m	AC	5	9	8	0	1	8	7	11/09/99	Verhovsky	414	416	04/17/97
	AD												
	AE												
	AF												
	AG												
	AH												
	AI												
	AJ												
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m.m	AB	6 1 1 6 8 4 8	09/12/00	Thomas et al.	414	754	11/26/97
m.m	AC	5 9 8 0 1 8 7	11/09/99	Verhovsky	414	416	04/17/97
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